Notice of Allowability	Application No.	Applicant(s)	
	10/633,344	LAM ET AL.	
	Examiner	Art Unit	
	Tuan V. Thai	2186	
The MAILING DATE of this communication apperature All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED i or other appropriate comm GHTS. This application is	n this application. If not included unication will be mailed in due course. THIS	/e
1. This communication is responsive to <u>5/1/2006</u> .			
2. The allowed claim(s) is/are 1-49 and 57-98 renumbered as	1-91 respectively.		
3. ☐ Acknowledgment is made of a claim for foreign priority una) ☐ All b) ☐ Some* c) ☐ None of the:	der 35 U.S.C. § 119(a)-(d)	or (f).	
 Certified copies of the priority documents have 	been received.		
Certified copies of the priority documents have	been received in Application	on No	
Copies of the certified copies of the priority do	cuments have been receive	d in this national stage application from the	
International Bureau (PCT Rule 17.2(a)).			
* Certified copies not received:			
Applicant has THREE MONTHS FROM THE "MAILING DATE" on noted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.	of this communication to file ENT of this application.	e a reply complying with the requirements	
4. A SUBSTITUTE OATH OR DECLARATION must be submit INFORMAL PATENT APPLICATION (PTO-152) which give	itted. Note the attached EX es reason(s) why the oath o	AMINER'S AMENDMENT or NOTICE OF r declaration is deficient.	
5. CORRECTED DRAWINGS (as "replacement sheets") mus	t be submitted.	•	
(a) ☐ including changes required by the Notice of Draftspers		w (PTO-948) attached	
1) hereto or 2) to Paper No./Mail Date	_	,	
(b) ☐ including changes required by the attached Examiner's Paper No./Mail Date	s Amendment / Comment o	r in the Office action of	
Identifying indicia such as the application number (see 37 CFR 1. each sheet. Replacement sheet(s) should be labeled as such in the	84(c)) should be written on t ne header according to 37 Cl	he drawings in the front (not the back) of FR 1.121(d).	
 DEPOSIT OF and/or INFORMATION about the deposit attached Examiner's comment regarding REQUIREMENT I 	SIT OF BIOLOGICAL MAT FOR THE DEPOSIT OF BIO	ERIAL must be submitted. Note the OLOGICAL MATERIAL.	
Attachment(s) 1. ☑ Notice of References Cited (PTO-892)	5 □ Notice of Ir	oformal Patent Application (PTO-152)	
2. Notice of Draftperson's Patent Drawing Review (PTO-948)		ummary (PTO-413),	
_	Paper No.	/Mail Date	
 Information Disclosure Statements (PTO-1449 or PTO/SB/0 Paper No./Mail Date 6/21/2004 	8), 7. ⊠ Examiner's	Amendment/Comment	
Examiner's Comment Regarding Requirement for Deposit of Biological Material	8. 🛭 Examiner's	Statement of Reasons for Allowance	^
o. Diological Material	9. 🗍 Other	La Way TUAN V.THAI PRIMARY EXAMINER	7

Application/Control Number: 10/633,344 -Page 2-

Art Unit: 2186

Attorney's Docket No.: 34826-0003

IN THE UNITED STATES PATENT AND

TRADEMARK OFFICE

In re application of: Lam et al. Group: 2186

Serial No.: 10/633,344 Examiner: Tuan Thai

For: METHOD AND SYSTEM FOR SYNCHRONIZING STORAGE SYSTEM DATA

1. This action is responsive to communication filed on 5/1/2006. Applicant's election of claims 1-49 and 57-98 is hereby acknowledged. Claims 50-56 and 99-112 have been withdrawn. Claims 1-49 and 57-98 are now allowed.

EXAMINER'S AMENDMENT

- 2. An Examiner's Amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 C.F.R. å 1.312. To ensure consideration of such an amendment, it **MUST** be submitted no later than the payment of the Issue Fee.
- 3. Authorization for this Examiner's Amendment was given in a telephone interview with Mr. Brandon N. Sklar; Reg. No. 31,667 on July 19, 2006

Application/Control Number: 10/633,344

Art Unit: 2186

4. The application has been amended as follows:

a. In the claims:

al. Amending the following claim:

Claim 64. (Once amended) The system of claim [48] 57, further comprising an interface for sending a copy of the first unit of data from the first storage unit system to the second storage, and a memory for storing the copy in the second storage system, if the first unit of data is determined to be different from the second unit of data.

REASONS FOR ALLOWANCE

5. The following is an Examiner's Statement of Reasons for Allowance:

The prior arts of record do not teach or suggest, alone or in combination, **all** the limitations and the combination of elements and their functions of the claims of the current invention (independent claims 1, 10, 26, 42-43, 57, 66, 82 and 98). All the independent claims are directed to the same subject matters, the discussion of the reasons for allowance shall be directed to claim 1; however the reasons for allowance will also apply to claims 10, 26, 42-43, 57, 66, 82 and 98. The prior arts of record do not particularly disclose an apparatus

Application/Control Number: 10/633,344

Art Unit: 2186

and method for comparing a first unit of data stored in a first storage system and a second unit of data stored in a second storage system in such a way that a first digest that is generated which represents the first unit of data; deriving a first encoded value using the first digest and a predetermined value; generating a second digest that represents the second unit of data; deriving a second encoded value using the second digest and the predetermined value, and determining whether the first unit of data and the second unit of data are duplicates of one another by comparing the first encoded value and the second encoded value. In light of the foregoing, claims 1, 10, 26, 42-43, 57, 66, 82 and 98 of the present application are found to be patentable over the prior arts.

Claims 2-9, 11-25, 27-41, 44-49, 58-65, 67-78 and 83-97 further limit the allowable independent claims. These claims are therefore allowable for the same reason as set forth above.

Any comments considered necessary by Applicant must be submitted no later than the payment of the Issue Fee and, to avoid processing delays, should preferably accompany the Issue Fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tuan V.

Application/Control Number: 10/633,344

Art Unit: 2186

Thai whose telephone number is (571)-272-4182. The examiner can normally be reached on from 6:30 A.M. to 4:00 P.M..

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mathew M. Kim can be reached on (571)-272-4187. The fax phone number for the organization where this application or proceeding is assigned is 571-273-9300. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

TVT/July 19, 2006

Tuan V. Thai

PRIMARY EXAMINER

Group 2100